

Work Order ID 149130

Tuesday, July 19, 2016 2:42:27 PM

149130

Page 1

Item ID: D4635-041 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Fwd Ceiling Panel Assembly, LH
Start Date: 7/6/2016 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 7/19/2016 Req'd Qty: 1.00 ***1*** Customer:
Reference:

Approvals: Process Plan: DAS 21 Date: JUL 20 2016 Tooling: _____ Date: _____ Run Start ***NR1***
QC: 9-89 Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr								
D4635	F								

100 0.00
100 AUG 29 2016
HandThermo Memo 0.00 DAS 6
Hand Finishing Thermoforming Pick Kit 9-89

110 0.00
110
Small Fab Memo 0.15 SMB
Small Fab 1- Assemble as per Dwg D4635-041 10/9/9
2-Install speakers
3- Install Air valves
4-Install Wiring Harness
5-Install wiring harness

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐
Past Expiry Date ☐	Manufacturing Process ☐				
Misidentified ☐	Past Due ☐	OTHER :			

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Page 2

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Required Date: 7/19/2016 Req'd Qty: 1.00 ***1*** Customer:
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Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120	QC5- Inspect part completeness to step on W/O	0.00							DAS 9 9-89
120									
QC	Memo	0.00							
Quality Control									
130	Identify as per dwg & Stock Location: _____	0.00							
130									
Packaging	Memo	0.00							
Packaging									
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.02							
Quality Control									

① 1628.14 DAS 9 9-89

① 28 9-89 SEP 14 2016

DAS 21 9-89 SEP 14 2016

DAS 21 9-89 SEP 14 2016

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Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Picklist Print

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Page 1

Work Order ID: 149130

149130

Parent Item: D4635-041

D4635-041

Parent Item Name: Fwd Ceiling Panel Assembly, LH

Start Date: 7/6/2016

Required Date: 7/19/2016

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev. A 12/08/09 New Issue DL
12/11/08 Doc Release DL
Update 13/07/09 DL verf:DD
13/12/09 DL
Ipp Rev. E Dwg Update 14/01/09 DL
Dwg. Update 15/01/27 DL

IPP Rev B
IPP Rev. C Dwg.
IPP Rev D Dwg Update

IPP Rev. F

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D4652-5 *D4652-5* Air Valve, 1.25 Id Disk Type		Manufactured	No			100	Each	0.0000	2	2			DAS 6 9-89
MS24693-BB51 *MS24693-BB51* Screw		Purchased	No			100	Each	519.0000	8	8			DAS 6 9-89
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				ST288		519							
				m128057		519							
D4635-141 *D4635-141* Fwd Ceiling Replacement Panel Assembly, LH		Manufactured	No			100	Each	0.0000	1	1			
D4646-1 *D4646-1* Plenum Cap Assembly		Manufactured	No			100	Each	63.0000	2	2			DAS 6 9-89
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				MF009		63							
				124234		13							
				125003		50							

AUG 29 2016

149094
B149183 SMI

AUG 29 2016

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Parent Item: D4635-041

D4635-041

Parent Item Name: Fwd Ceiling Panel Assembly, LH

Start Date: 7/6/2016

Required Date: 7/19/2016

Start Qty: 1.00

Required Qty: 1.00

D4655-1

Manufactured No

100

Each

41.0000

2

2

D4655-1

Speaker

DAS
6
9-89

Location

Loc Qty

Loc Code

MF002

41

111827

12

112009

1

117634

26

92333

2

2

D4708-9

Manufactured No

100

Each

23.0000

2

2

D4708-9

Lanyard

DAS
6
9-89

Location

Loc Qty

Loc Code

MF004

23

111242

1

112122

22

2

D4728-041

Manufactured No

100

Each

20.0000

1

1

D4728-041

LH Cabin Speaker #1

DAS
6
9-89

Location

Loc Qty

Loc Code

MF002

5

117921

5

MF009

15

124216

15

1

ALL 2 9 2016

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Work Order ID: 149130

149130

Parent Item: D4635-041

D4635-041

Parent Item Name: Fwd Ceiling Panel Assembly, LH

Start Date: 7/6/2016

Required Date: 7/19/2016

Start Qty: 1.00

Required Qty: 1.00

D4728-043 Manufactured No

100 Each 20.0000 1 1

D4728-043

LH Cabin Speaker #2

DAS

6
9-89

Location

Loc Qty

Loc Code

MF002

5

117925

5

MF009

15

124296

15

D4728-059 Manufactured No

100 Each 20.0000 1 1

D4728-059

Cabin Lights Harness

DAS

6
9-89

Location

Loc Qty

Loc Code

MF002

5

117936

5

MF009

15

124187

15

D4743-1 Manufactured No

100 Each 20.0000 2 2

D4743-1

Speaker Grill

DAS

6
9-89

Location

Loc Qty

Loc Code

MF005

20

129268

20

MS21044-N08 Purchased No

100 Each 155.0000 8 8

MS21044-N08

Nut

DAS

6
9-89

Location

Loc Qty

Loc Code

ST302

152

m131452

152

ST303

3

m127813

2

m130297

1

AUG 29 2016

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Shop Packet Print

Page 3

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order ID: 149130

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Parent Item: D4635-041

D4635-041

Parent Item Name: Fwd Ceiling Panel Assembly, LH

Start Date: 7/6/2016

Required Date: 7/19/2016

Start Qty: 1.00

Required Qty: 1.00

MS21919-WDG8

Purchased

No

100

Each

54.0000

6

6

MS21919-WDG8

DAS

6

9-89

Clamp

Location

Loc Qty

Loc Code

ST293

54

m128057

54

NAS1149DN832J

Purchased

No

100

Each

561.0000

8

8

NAS1149DN832J

DAS

6

9-89

Washer

Location

Loc Qty

Loc Code

CA

84

M129499

84

ST264

477

M134180

477

PLT1.5M-M

Purchased

No

100

Each

2,855.000

7

7

PI T1 5M-M

DAS

6

9-89

Tie Wrap

Location

Loc Qty

Loc Code

ST585

2855

m129712

2855

AUG 29 2016

DQA: _____ Date: _____



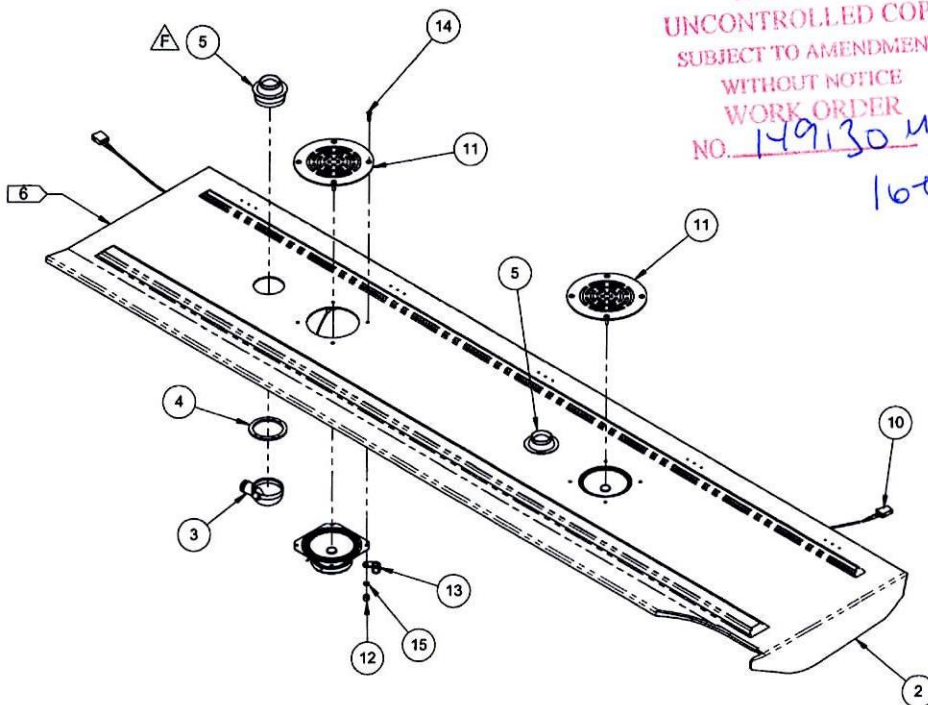
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OTHER : _____					

SHOP COPY
RETURN TO
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UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 149130 MJS
1607-20



D4635-041 LH, FWD CEILING PANEL ASSY

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.4, ON SMOOTH SIDE
- 7) WEIGHT: 8.0 lbs
- 8) INSTALL D4728-041/-043/-059 WIRE HARNESS PER QSI 048
- 9) ON D4708-9 LANYARD OPEN TO Ø0.196 BOTH ENDS

ITEM NO.	QTY. -041	P/N	DESCRIPTION
1	X	D4635-041	LH, FWD CEILING PANEL ASSY
2	1	D4635-141	LH, FWD CEILING REPLACEMENT PANEL ASSY
3	2	D4646-1	PLENUM CAP ASSEMBLY
4	2	D4652-3 (REF)	MOUNTING NUT (PART OF D4652-5)
5	2	D4652-5	AIR VALVE, 1.16 ID DISK TYPE
6	2	D4655-1	SPEAKER
7	2	D4708-9	LANYARD
8	1	D4728-041	LH SPEAKER #1 HARNESS ASSY
9	1	D4728-043	LH SPEAKER #2 HARNESS ASSY
10	1	D4728-059	CABIN LIGHT HARNESS
11	2	D4743-1	SPEAKER GRILL
12	8	MS21044-N08	NUT, SELF-LOCKING
13	6	MS21919WDG8	CLAMP
14	8	MS24693-BB51	SCREW, CSK 100*
15	8	NAS1149DN832J	WASHER
16	7	PLT1.5M-M	TIE-WRAP (OR PLT1.5M-C)

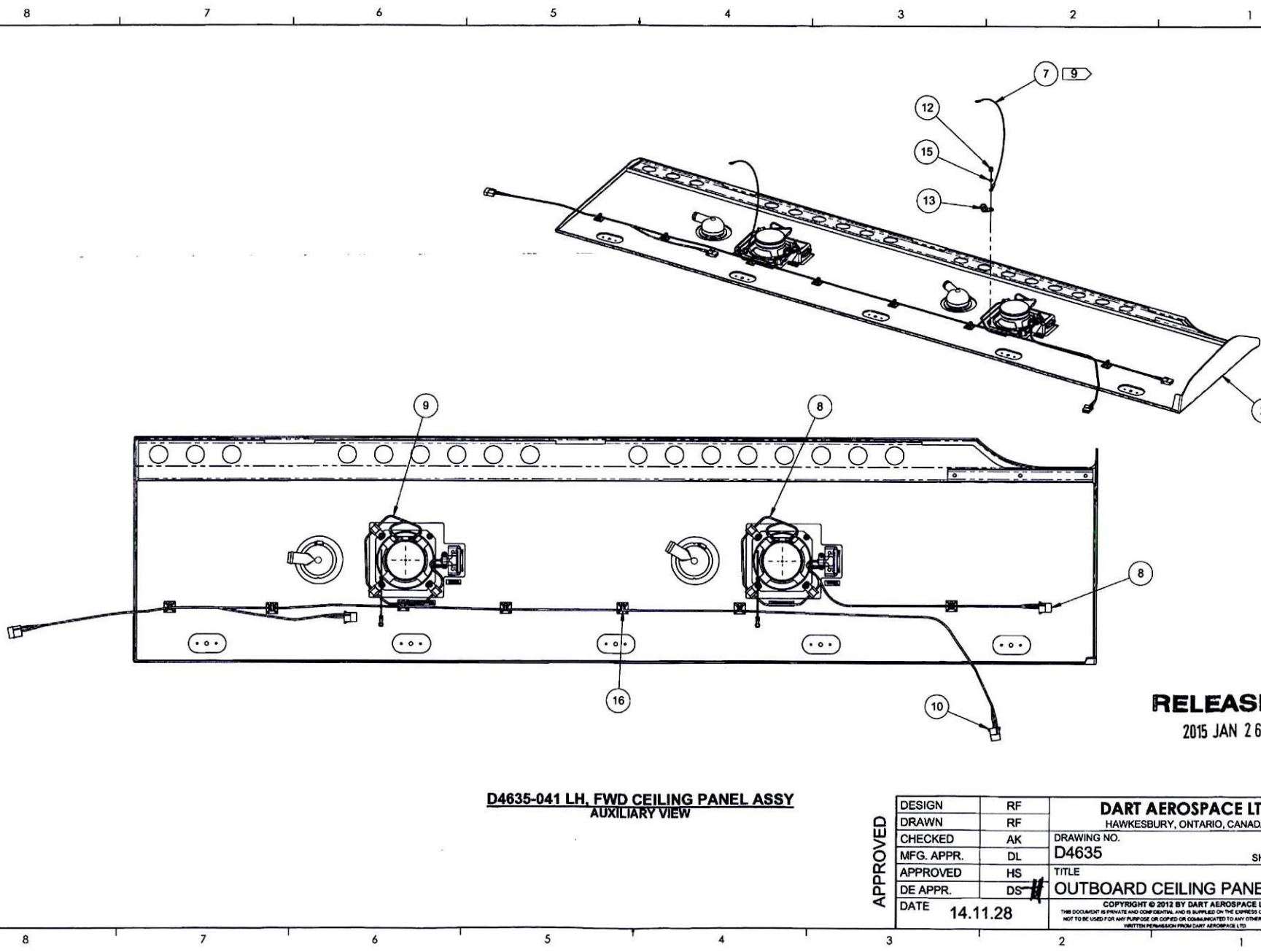
RELEASED

2015 JAN 26

ECN 14-634 GP

F	D4652-5 WAS D4652-1 (ZN D4-1, D4-3, D4-5, D4-7)	RF	14.11.28
E	REVISE BOM (ZN D4-1, D4-3, D4-5, D4-7); ADDED NOTE 11) (ZN A8-9, A8-10, A8-11 & A8-12); REVERSE VIEW -142/-144 (ZN B6-10, B6-12); RANGE 1.5-1.8 WAS 1.8 (ZN A7-17); DIMENSION HAS SHIFTED DUE MATERIAL THICKNESS	RF	14.01.09
D	CORRECTING VIEW FOR ITEM 8 (ZN B2-2); ADDED D5022-1 (ZN D4-9, C3-9, D4-10, C2-10), D5022-3 (ZN D4-11, C8-11), D5022-5 (ZN D4-12, B6-12); DIMENSION SHIFTED DUE ADDING D5022-1/-3/-5; REVERSE NOTE 10) (ZN A8-9, A8-10, A8-11, A8-12); NOTE 1) (ZN A8-13, A8-14, A8-14, A8-15, A8-16)	RF	13.12.09
C	REVISE NOTE 8) (ZN A8-9, A8-10, A8-11 & A8-12); 32 WAS 34 (ZN C5-15, B5-16); CORRECT TYPO #1 WAS #3 (ZN D4-3); CHANGE TOLERANCE (ZN C3-13, B2-14, B5-17, B7-17, D2-17, D4-17, A3-18)	RF	13.06.18
B	ADDED D4635-141/-142/-143/-144 (ZN B4-9, B4-10, B4-11, B4-12); REVISE D4635-041/-042/-043/-044 PART LIST & GENERAL NOTES; ADDED D4732-41 (ZN B5-8); CHANGE TO D4743-1 SPEAKER GRILL AND MS24693-BB51 SCREWS (SHT 1, 3, 5, 7); ADD VIEWS R-R (ZN A7-17) AND S-S (ZN A5-17); UPDATE DETAIL 'D' (ZN C7-18)	RF	12.11.30
A	NEW ISSUE	RF	12.07.25
REV.	DESCRIPTION	BY	DATE
DESIGN	RF		
DRAWN	RF		
CHECKED	AK		
MFG. APPR.	DL		
APPROVED	HS		
DE APPR.	DS		
DATE	14.11.28		
DART AEROSPACE LTD HAWKSBURY, ONTARIO, CANADA DRAWING NO. D4635 OUTBOARD CEILING PANELS SHEET 1 OF 18 SCALE NTS COPYRIGHT © 2012 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.			

APPROVED



RELEASED
2015 JAN 26 *ap*

D4635-041 LH, FWD CEILING PANEL ASSY
AUXILIARY VIEW

APPROVED

DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	AK	DRAWING NO.	REV. F
MFG. APPR.	DL	D4635	SHEET 2 OF 18
APPROVED	HS	TITLE	SCALE
DE APPR.	DS	OUTBOARD CEILING PANELS	NTS
DATE	14.11.28	COPYRIGHT © 2012 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESSED CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD	

Linda Lacelle

From: Linda Lacelle
Sent: Monday, May 11, 2015 12:59 PM
To: Nigel Forbes
Subject: FW: 139 Ceilings Deviation

All Mike G...

From: David Shepherd
Sent: May-11-15 12:58 PM
To: Nigel Forbes; Bill Beckett
Cc: Roberto Fuentes; Linda Lacelle; Mario Poulin; Daryl Leger; Harvey Siemens
Subject: RE: 139 Ceilings Deviation

Nigel/Bill,

Can you clarify what is going on here. About 6 months ago, Operations pushed Engineering to change the lights and air vents previous lights and air vents were waaaaaaay too expensive. Now we have 3 years supply of the old expensive parts. I'm con

Regards,
David

From: Mario Poulin
Sent: May-11-15 10:53 AM
To: Daryl Leger; Harvey Siemens
Cc: Roberto Fuentes; David Shepherd; Linda Lacelle
Subject: RE: 139 Ceilings Deviation

No orders pending,

From: Daryl Leger
Sent: Monday, May 11, 2015 12:49 PM
To: Mario Poulin; Harvey Siemens
Cc: Roberto Fuentes; David Shepherd; Linda Lacelle
Subject: RE: 139 Ceilings Deviation

Harvey
Re: 139 Ceilings

We have	old stock quantities of	D4652-1 air Valve	QTY 163. (enough old stock for 13 sets)	New Stock Qty. 0
	Old stock quantity of	D4638-1 light	QTY 73. (enough old stock for 24 sets)	New Stock Qty. 0

We do not have any orders on hand for ceilings and I have no idea if there are any pending orders.
Please advise

Daryl

From: Mario Poulin
Sent: Monday, May 11, 2015 10:45 AM
To: Harvey Siemens; Daryl Leger

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Cc: Roberto Fuentes; David Shepherd; Linda Lacelle
Subject: RE: 139 Ceilings Deviation

Harvey,

We have stock for about 3 years, Ok to keep some old ones in case, but we should be reducing inventory first.

Mario,

From: Harvey Siemens
Sent: Monday, May 11, 2015 10:18 AM
To: Daryl Leger
Cc: Roberto Fuentes; Mario Poulin; David Shepherd
Subject: RE: 139 Ceilings Deviation

Daryl,

I thought we were going to move to the new parts and not use up all the old stock in case somebody wanted/needed replace

Just a little curious, why we are going backwards??

H.S

From: Daryl Leger
Sent: May-11-15 5:56 AM
To: Harvey Siemens
Cc: Roberto Fuentes; Mario Poulin
Subject: 139 Ceilings Deviation

Harvey

Can you please provide a standard email that we can use to make D4634-xxx panels at Rev. F until old stock parts are used up
We will also need same type document to produce D4635-xxx panels as per Rev. E until old stock parts are used up.
We will not use unmatched parts (old/new on same set panel) as old stock diminishes.

Daryl

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																																																										
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																																																									
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER :			
Misidentified ☐	Past Due ☐																																																																